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Appl. No. 10/080,070
Amtd. Dated May 27, 2004
Reply to Office Action of May 4, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A discharge lamp comprising:
an envelope;
a discharge-sustaining fill sealed inside the envelope;
first and second electrodes for providing a discharge, at least the first electrode including
5 a current carrying wire and a coil including:
a first coiled structure formed by winding an overwind wire around a first
cylindrical member,
a second coiled structure formed by winding the first coiled structure
around a second cylindrical member without appreciable overlapping of the coils,
10 the second coiled structure having at least 80 turns per inch,
a third coiled structure formed by winding the second coiled structure
around a third cylindrical member, the third cylindrical member having a
diameter of at least 1.2 mm, and
an emitter material deposited on the coil, the amount of emitter material being at least 9-
15 16 mg per 11.5 mm length of the coil.
2. (Cancelled).
3. (Previously Amended) The discharge lamp of claim 1, wherein the third
cylindrical member has a diameter of at least 1.2-1.5mm.
4. (Cancelled).
5. (Previously Amended) The discharge lamp of claim 1, wherein the second
coiled structure has at least 85 turns per inch.
6. (Original) The discharge lamp of claim 1, wherein the third coiled structure is
at least 10mm in length.
7. (Original) The discharge lamp of claim 6, wherein the third coiled structure is
11-12 mm in length and the lamp is a T8 lamp.
8. (Original) The discharge lamp of claim 1, wherein the emitter material
comprises an oxide selected from the group consisting of barium, strontium, calcium, zirconium,

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and combinations thereof.

9-11. (Cancelled).

12. (Previously Amended) The discharge lamp of claim 1, wherein the second coiled structure has at least 90 turns per inch.

13. (Previously Amended) The discharge lamp of claim 1, wherein the secondary coil is about 30 mm in length.

14. (Cancelled)

15. (Currently Amended) A method for forming a coil for a fluorescent lamp, the method comprising:

winding a wire around a first cylindrical member and a current carrying wire to form a first coiled structure;

5 winding the first coiled structure around a second cylindrical member, without appreciable overlapping of coils, to form a second coiled structure having 80-130 turns per inch; and

winding the second coiled structure around a third cylindrical member, the third cylindrical member having a diameter of 1.2-1.5 mm, to form a third coiled structure, the third
10 structure having a diameter of at least 1 mm; and

coating the third coiled structure with an emitter mix which, when activated, emits electrons when heated, the amount of emitter material being 10-15mg/30 mm length of secondary coil.

16-23. (Cancelled)